International Application No PCT/6B 03/03012

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A. CLASSI IPC 7	FICATION OF SUBJECT MATTER C12N15/86 C12N5/10 A61K35/7	76 A61K48/00	
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	
	SEARCHED		
Minimum do	cumentation searched (classification system followed by classification classification content of the classification content of	on symbots)	
	ion searched other than minimum documentation to the extent that s		
Electronic d	ela base consulted during the International search (name of data ba	se and, where practical, search terms use	d)
EPO-In	ternal, BIOSIS, PAJ, EMBASE		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.
X	WO 97 12049 A (CASIMIR COLIN MAUR ;MEDICAL RES COUNCIL (GB); RUSSEL J) 3 April 1997 (1997-04-03) cited in the application page 3, line 30 -page 5, line 35 page 7, line 1 -page 10, line 25;	L STEPHEN	1-5,7-41
γ	1-3 page 25, line 15 -page 27, line 2 same passages	25	6
	 -	/	
X Furth	er documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clatation or other special reason (as specified) *O* document published prior to the international filing date but later than the priority date camed to involve an involve an investment of particular relevance; the cannot be considered to involve an involve an investive step mentle, such combination being obvior in the art. *A* document published prior to the international filing date but later than the priority date calmed *Cocument security date and not in conflict with cited to understand the principle or the international filing date but later than the priority date calmed *Cocument security date and not in conflict with cited to understand the principle or the international filing date but later than the priority date and not in conflict with cited to understand the principle or the international filing date but later than the priority date and not in conflict with cited to understand the principle or the international filing date but later than the priority date and not in conflict with cited to understand the principle or the international filing date but later than the priority date and not in conflict with cited to understand the principle or the international filing date but later than the priority date and not in conflict with cited to understand the principle or the international filing date but later than the priority date and not in conflict with cited to understand the principle or the calment of priority date and not in conflict with cited to understand the principle or the international filing date but later than the priority date and not in conflict with cited to understand the principle or the international filing date but later than the priority date calment served to involve an involve an i		the application but acory underlying the claimed invention to econsidered to cument is taken alone talmed invention ventive step when the ore other such docu- us to a person skilled	
Date of the a	ctual completion of the international search	Date of mailing of the international sea	arch report
23	3 October 2003	10/11/2003	
Name and m	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer Urv. A	

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Continu	ation) DOCUMENTS CONSIDERED TO BE BELEVANT	PCT/67 03/03012			
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Catalon of opcument, with indication, where appropriate, of the relevant passages Relevant to claim No.					
ercAnth ,	Citation of document, with indication, where appropriate, of the relevant passages	Helevani (o ciam No.			
(BITTNER ALEXANDRA ET AL: "Specific transduction of HIV-1 envelope expressing cells by retroviral vectors pseudotyped with hybrid CD4/CXCR4 receptors" JOURNAL OF VIROLOGICAL METHODS, vol. 104, no. 1, June 2002 (2002-06), pages 83-92, XP002259019 ISSN: 0166-0934 Whole document and in particular items 3.3 and 3.4.	1-3, 7-17,22, 23, 26-29, 37,41			
	same passages	6			
	JIANG AN ET AL: "Cell-type-specific gene transfer into human cells with retroviral vectors that display single-chain antibodies" JOURNAL OF VIROLOGY, vol. 72, no. 12, December 1998 (1998-12), pages 10148-10156, XP002103152 ISSN: 0022-538X the whole document	6			
	WO 94 20621 A (CZAPLEWSKI LLOYD GEORGE ;BRITISH BIO TECHNOLOGY (GB)) 15 September 1994 (1994-09-15) page 16, paragraph 2				
	LAVILLETTE DIMITRI ET AL: "Retargeting gene delivery using surface-engineered retroviral vector particles" CURRENT OPINION IN BIOTECHNOLOGY, vol. 12, no. 5, October 2001 (2001-10), pages 461-466, XP002259021 ISSN: 0958-1669				
	GOLLAN TIMOTHY J ET AL: "Redirecting retroviral tropism by insertion of short, nondisruptive peptide ligands into envelope" JOURNAL OF VIROLOGY, vol. 76, no. 7, April 2002 (2002-04), pages 3558-3563, XP002259022 ISSN: 0022-538X cited in the application				
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PCT/65 03/03012

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	GOLLAN TIMOTHY J ET AL: "Selective targeting and inducible destruction of human cancer cells by retroviruses with envelope proteins bearing short peptide ligands" JOURNAL OF VIROLOGY, vol. 76, no. 7, April 2002 (2002-04), pages 3564-3569, XP002259023		
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Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 28, 37 and 38 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X	Claims Nos.: 42 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
з. 🔲	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	·
1.	As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
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з	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
	·
Remark	on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 42

In view of the formulation of claim 42 it is impossible to determine the matter for which protection is sought. The present claim fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.1(a) PCT) to such an extent that a meaningful search is impossible.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

I ation on patent family members

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